

ABSTRACT OF THE DISCLOSURE

5 A failure diagnosis apparatus for secondary air
supplier according to the present invention determines
a failure of a secondary air supplier based on pressure
and pressure pulsation in a secondary air supply path.
A failure diagnosis is made by determining the presence
or absence of pressure pulsation in the secondary air
supply path based on a determination threshold, and in
the present invention the determination threshold is
10 varied according to a pressure value in the secondary
air supply path (a smoothed value or an average value
of measured pressure). This permits the apparatus to
make an accurate failure diagnosis, while eliminating
pressure pulsations except for that due to exhaust
15 pulsation (e.g., that due to noise of the pressure
sensor and that caused by surging of an air pump).